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Application No.

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Examiner

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Art Unit

Katarzyna Wyrozebski Lee

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|--|----------|------------|---------------------|---------------------|----------|--|--------------|--|---------------------|----------|------|--------|----------|------------|----------|----------------|------------|--|-----------|------------|--------|----------|----------|------|----|----------|---------------|----------|---------|----------|----------|-----------|----------|--------|
| ## 6 03 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | <u> </u> | _          |                     |                     |          |  |              | 1  | <u> </u>            | r—       | 11   | 17     | T        | T          | T        | П              |            |  | П         | 1          |        |          |          |      |    |          |               |          |         |          |          |           |          |        |
| 1  | ন        | Ī.         |                     |                     |          |  |              | 1  |                     |          |      | ·-     | <u>a</u> | ]<br>⊒     | 耑        | 14             | 1          |  | 1         |            |        |          |          | 1    | ਾਰ | na<br>L  |               | -        | 1       |          |          |           |          | l      |
| 1  | l iE     | Ē          | Κī                  | 4!                  |          |  |              |  |                     |          |      | H      | ιË       | <u>:</u> Ē | E        | _              | 1          |  | 1         |            |        |          |          | Į    | 뜶  | <u>i</u> |               |          |         | 1        |          |           |          | į      |
| 1  | -        | 0          | n                   | ď                   | 9        |  |              | 1  | 1                   |          |      | ΙΊ     |          | 0          | خارا     | 104            | H          |  | 1         |            |        |          |          |      | _  | 0        | - 1           |          |         | 1        |          |           |          | ļ      |
| 102  | _        | 1          |                     |                     |          | +                                      | 1            | +  | 1                   |          |      | ii     |          |            | -        | _              |            | 1  | +-        | -          | _      |          | Н        | Ì    |    | 101      | $\dashv$      | _        | +-      | 1-       | -        | $\vdash$  | М        | _      |
| 3  | _        |            | ΙŤ                  | Ť                   | +        | ╅                                      | +            | ┼─   | <del> </del>        | T        | _    | il     |          |            | ļ:       | h              | 1          | +-   | ┢         | _          |        |          | М        |      |    |          | $\top$        | +        | +       | 1        | $\vdash$ | Н         |          |        |
| 4       1       104       104       104       105       105       106       106       107       108       108       107       108       107       108       109       100       107       108       109       100 </td <td></td> <td></td> <td>11</td> <td>H</td> <td>+</td> <td>+-</td> <td>1</td> <td>†</td> <td>+</td> <td>М</td> <td></td> <td>1  </td> <td></td> <td></td> <td>Ħ</td> <td>H</td> <td>╁╴</td> <td>+</td> <td>1-</td> <td>-</td> <td>-</td> <td><math>\vdash</math></td> <td>Н</td> <td>:  </td> <td></td> <td></td> <td><math>\neg</math></td> <td></td> <td>+-</td> <td>t</td> <td><math>\vdash</math></td> <td><math>\vdash</math></td> <td>М</td> <td>_</td>  |          |            | 11                  | H                   | +        | +-                                     | 1            | †  | +                   | М        |      | 1      |          |            | Ħ        | H              | ╁╴         | +  | 1-        | -          | -      | $\vdash$ | Н        | :    |    |          | $\neg$        |          | +-      | t        | $\vdash$ | $\vdash$  | М        | _      |
| 5  |          |            | 11                  | 11                  | +        | $\top$                                 | +-           | 1  | 1                   | $\vdash$ | _    | ſ.,    |          | 54         | H        | H              | 1          | +  | t         | $\vdash$   | -      | _        | М        | ı    |    |          | $\neg$        | +        | +       | 十        | H        | Н         | П        |        |
| 6  |          |            | ††                  | +1                  | +-       | +                                      | 1            | ┼┈   | ┪~~~                | 1        | _    |        |          | 55         | ╫        | † †            | ┿          | +-   |           |            | -      | -        | Н        | - 1  |    |          |               |          | +-      | ┼┈       | -        | $\vdash$  | Н        |        |
| 10   |          |            | 11                  | Н                   | ╈        | +                                      | $^{\dagger}$ | T  | T                   |          | _    |        |          | 56         | #-       | П              | 十          | †  | 十         |            |        | $\vdash$ | Н        |      |    |          | $\neg$        | +        | +       | †.       | $\vdash$ |           | $\vdash$ |        |
| S  |          |            | Ħ                   | 11                  | +        | $\top$                                 | 1-           | 1  | 1                   |          | -    | l I    |          | 57         | #        | Ħ              | T          | $\top$   | $\vdash$  | П          | _      |          | Н        | ı    |    |          | $\dashv$      | +        | +       | +        | $\vdash$ | Н         |          |        |
| 9  |          |            | 11                  | 77                  | $\top$   | $\top$                                 | T            | T  | 1                   |          |      | 1      |          |            | H        | Н              | t          | $\top$   | $\vdash$  | -          |        | -        | $\vdash$ | ŀ    |    |          | 一十            | -1-      | +-      | 1-       |          |           | Н        |        |
| 10   |          |            | 11                  | П                   | T        | 1                                      | T            | T  |                     | П        |      | 1 1    |          |            | 11       | ††             | †          | $\top$   | ┢         |            | _      | П        | П        | ı    |    |          | 7             | $\neg$   | 1       | $\vdash$ | $\vdash$ | П         |          |        |
| 11   |          |            | ††                  | 11                  | 十        | 1                                      | +            | <del>                                     </del> | 1                   |          |      |        |          | 60         | Ħ        | 11             | 十          | T  | ┢         |            |        |          | П        | - 1  |    | 110      | 一十            | - -      | $\top$  | 1        | $\vdash$ |           | $\neg$   |        |
| 12   |          |            | 11                  | П                   | 1        | _                                      | 1            | T  |                     | $\Box$   |      | 1 1    |          |            | 11       | Ħ              | $\vdash$   | 1  | $\vdash$  |            |        |          |          |      |    |          | $\dashv$      | -        | +-      | 1        | -        |           | $\neg$   | $\neg$ |
| 13   |          |            | 11                  | 11                  | 1        | T                                      | $\top$       | T  |                     | П        |      |        |          |            | $\sqcap$ | 1              | $\dagger$  | T  | $\vdash$  |            |        |          | Н        | 1    |    |          | 7             | 十        | T       | ✝        | _        | $\Box$    | $\neg$   |        |
| 14   |          |            | $\prod$             | П                   | Τ        | Т                                      | $\top$       | Ī  |                     |          |      |        |          | 63         | 1        | П              | 1          | T  |           |            |        |          | П        | ·.   |    | 113      | $\neg$        | 十        | 1       | Τ        | П        | П         | ╛        | $\neg$ |
| 15   |          | 14         | $\Pi$               | П                   | T        | T                                      | 1            |  |                     |          |      |        | -        | 64         | 3        | П              | 1          | T  |           |            |        |          | П        | ı    |    |          | $\dashv$      | 7        | 1       | Т        | П        | П         |          |        |
| 16   | •        | 15         | Π                   | П                   | 1        | 1                                      |              |  |                     |          |      |        |          |            |          | П              |            | 1  | $\Box$    | -          |        |          |          | Ī    |    |          |               | 1        | T       |          | Г        |           | П        | _      |
| 17   |          |            | П                   | П                   | Γ        | $\Gamma$                               |              |  |                     |          |      |        |          |            |          | П              | Π          | T-   |           |            | _      |          | П        | . [  |    | 116      | $\neg \vdash$ | 7        | 1       |          |          | П         | $\neg$   |        |
| 18   |          | 17         | []                  | 1                   | Ι        | Ι                                      |              |  |                     |          |      | lÌ     |          |            |          | $\Box \dagger$ |            | 1  |           |            |        |          | П        | 1    |    | 117      | $\neg$        | 1        | 1       | 1        |          | $\Box$    |          |        |
| 19   |          | 18         | $\Box$              | П                   | Τ        |  |              |  |                     |          |      |        |          | 68         |          | П              | Т          | T  | T         |            |        |          |          | Ī    |    |          | -             |          | 1-      | $\vdash$ |          | $\Box$    | T        |        |
| 120  |          | 19         | П                   | П                   | Τ        | T                                      | T            | T  |                     |          |      | 1      |          |            |          | П              | Т          | T  |           |            |        |          |          | - 1  |    | 119      | $\neg$        | $\top$   | 1       | $\vdash$ |          |           | $\neg$   |        |
| 121  |          | 20         | П                   | П                   | Т        |  |              |  |                     | П        |      |        |          | 70         |          | П              | T          | 1  |           |            |        |          | П        | ı    |    | 120      | $\neg$        | 一        | Τ       |          |          | П         | $\Box$   |        |
| 122  |          | 21         | П                   | П                   | Τ        | T                                      | Τ            |  | Г                   |          |      |        |          |            | _        | M              | 1          | 1  | T         |            |        |          |          | Ì    |    | 121      |               |          | 1       | T        |          |           |          |        |
| 123  |          | 22         | П                   | П                   |          |  |              |  |                     |          |      | 1 . [  |          | 72         |          | П              | Ι.         |  |           |            |        |          |          | Ī    |    | 122      |               | _ _      | 1-      | -        |          | П         |          |        |
| 24       74       124         25       76       125         26       76       126         27       77       127         28       78       128         29       79       129         30       80       130         31       81       131         32       82       132         33       83       133         34       84       134         35       85       135         36       86       136         37       87       137         38       88       139         39       89       139         40       90       140         41       91       141         42       92       142         43       94       144         44       94       144         45       95       145         46       96       146         47       97       147         48       98       149  |          | 23         | П                   | П                   | T        |  | $\Gamma$     |  |                     | П        |      |        |          | 73         | Г        |                | Г          | П  |           |            |        |          |          | ı    |    | 123      | $\neg$        | $\neg$   |         | $\vdash$ |          | $\Box$    |          |        |
| 75   |          | 24         | П                   | П                   | T        | $\perp$                                | 1            |  |                     |          | -    | [      |          | 74         |          | П              | Τ          |  |           |            |        |          | П.       | . [  |    |          | $\neg$        | $\neg$   | T       | Т        |          |           | $\neg$   |        |
| 27       127         28       129         30       129         31       129         32       130         33       81         33       82         33       131         34       84         35       85         36       86         37       88         38       38         39       88         40       90         41       91         42       92         43       93         44       94         45       96         46       96         49       148         49       99   |          |            | П                   | П                   |          | $\perp$                                |              |  |                     | - 1      |      | [      |          | 75         |          |                |            | $\prod$  |           |            |        |          | <b>1</b> |      |    |          | $\neg$        | Т        | Т       | П        |          | П         | $\Box$   |        |
| 28       128       128       129       129       129       129       130       130       131       131       131       131       131       131       131       131       131       132       132       132       133       133       133       133       133       133       133       133       133       133       134       134       134       134       134       135       135       136       135       136       135       136       137       137       136       137       137       138       138       138       138       138       139       140       140       141       140       141       141       142       142       142       144       144       144       144       144       144       144       144       144       144       144       144       144       144       144       145       146       147       147       147       147       147       147       147       148       148       148       148       149       149       149       149       149       149       149       149       149       149       149       149       149       149       149       14  |          |            | Ш                   | Ц                   | L        | 1_                                     | L            |  |                     |          |      | [      |          |            |          |                |            |  |           |            |        |          |          | -[   |    | 126      | $\neg$        |          | Т       | Г        |          | $\Box$    | $\Box$   |        |
| 28       78       128         29       129         30       80       130         31       131         32       132         33       133         34       134         35       135         36       86         37       137         38       88         39       88         40       90         41       91         44       92         43       93         44       94         45       96         46       97         48       98         49       149  |          |            | Ц                   | Ш                   | 1        |  |              |  |                     |          |      | · [    |          | 77         |          | П              |            |  |           |            |        |          |          |      |    | 127      |               | $\top$   | Т       |          |          | П         | П        |        |
| 129  |          | 28         |                     | П                   | L        |  |              |  |                     |          |      | l, [   |          | 78         |          | П              |            | Ι  |           |            |        |          |          | - [  |    | 128      |               |          | 1       |          |          | $\Box$    |          |        |
| 31       131       132       132       132       133       133       133       133       133       133       134       133       134       134       134       134       135       135       136       135       136       135       136       136       137       137       137       137       137       137       138       138       138       138       138       138       139       140       140       141       141       141       141       141       141       141       141       142       142       143       144       14  |          | 29         | L                   | Ш                   | 1        |  |              |  |                     |          |      | - [    |          | 79         |          | 4              |            | Ι  |           |            |        |          | $\neg$   | - [  |    | 129      |               | T        |         |          |          | $\Box$    | $\neg$   | $\neg$ |
| 32   |          |            | Ы                   | Ц                   | L        |  |              |  |                     |          |      | [      |          | 80         |          | V              |            |  |           |            |        |          |          | ∷[   |    |          |               |          | 1.      |          | _        | $\Box$    | $\neg$   |        |
| 33   |          | 31         | 100                 | 11                  | _        | 1_                                     |              | L  |                     |          |      | -[     |          | 81         |          |                |            |  |           |            |        |          |          | ··[  |    | 131      | П             | Т        | Т       |          |          | П         |          |        |
| 34   |          |            | П                   | Ш                   | L        | ┸                                      | 1_           | L  |                     |          |      |        |          |            |          |                |            |  |           |            |        |          |          | [    |    | 132      |               | T        | T .     |          |          | $\Box$    |          | $\neg$ |
| 35   |          |            | Ш                   | Ц                   | _        |  | _            | <u> </u>   |                     | Ш        |      |        |          |            |          |                | L          |  |           |            |        |          |          | [    |    | 133      |               | Т        |         |          |          |           | $\neg$   |        |
| 36   |          |            | Ш                   | Ш                   | 1_       |  | <u> </u>     | $\perp$  |                     | $\Box$   | _]   |        |          |            | L.       |                | 匚          |  |           |            |        |          |          |      |    | 134      | $\perp$       | $\prod$  | $\prod$ |          |          |           | J        |        |
| 87   |          |            | 11                  | Ц                   | $\perp$  | $\perp$                                | 1_           | _  | $\sqcup$            | Ш        |      |        | ]        |            |          |                | L          | 1_   | $\square$ | $\Box$     | _]     |          | $\Box$   | [    |    | 135      | $\Box$        |          |         |          |          |           |          |        |
| 38   | L        |            | Ш                   | Ц                   | 1        | $\perp$                                | <b>L</b>     | <u> </u>   | Ш                   |          |      |        |          |            |          | <u> </u>       | Ĺ          | 匚  | $\Box$    | $\Box$     | _]     |          | _]`      | _[   |    | 136      | $\perp$       | $\perp$  |         |          |          |           |          |        |
| 89   |          |            | 11                  | $\sqcup$            | $\perp$  | 4                                      | <del> </del> | <b> </b>   | Ш                   | $\sqcup$ | ·    |        |          |            | <u> </u> |                | $\vdash$   | <u> </u>   | Ш         | I          | _]     |          | _        | L    |    |          | $\Box$        |          |         |          |          |           |          |        |
| 40   |          |            | ш                   | П                   | 1_       | 1                                      | Ĺ            | <u> </u>   | L.J                 |          |      |        | i        |            | <u> </u> |                | <u> </u>   | i_   | أكا       | $\Box$     |        |          | _]       |      | I  | 138      | $\Box$        |          |         |          |          |           | $\Box$   |        |
| 41     91       42     92       43     93       44     93       44     94       45     94       46     95       47     96       48     97       48     98       49     148       49     99   |          |            | Ш                   | Н                   | 1_       | 1_                                     | L            | L  | Ш                   | $\sqcup$ | _    |        |          |            |          |                | _          | Ш  |           | $\Box$     | ]      | $\perp$  | $\Box$   |      |    |          |               |          |         |          |          |           | $\Box$   |        |
| 42     92       43     93       44     93       45     94       46     95       47     96       48     97       48     98       49     149       49     149  |          |            | 11                  | Н                   | 1_       | $\perp$                                | _            | <u> </u>   | Ш                   |          | _    |        |          |            |          |                | _          | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |           | $\perp$    |        |          |          | : [  |    |          |               |          |         |          |          |           |          |        |
| 43     93       44     144       45     94       46     95       47     96       48     97       49     98       49     99   |          |            | 11                  | Н                   | 1        | 1                                      | <u> </u>     | <u> </u>   | Ш                   |          |      | Ļ      |          |            |          |                | L_         | L  |           | $\perp$    |        | _[       |          | . [  |    | 141      |               |          |         |          |          |           |          |        |
| 44     94       45     95       46     96       47     97       48     98       49     99  |          |            | Н                   | 11                  | Ļ        | 1                                      | <u> </u>     | Ш  | Ш                   |          | ᆜ    |        | [        |            |          |                | _          | _  | ШĪ        | $\Box$     |        | $\Box$   |          |      |    | 142      |               |          |         |          |          |           | $\Box$   |        |
| 45   |          |            | Ц                   | Н                   | <b>L</b> | $\perp$                                | ļ            | $\vdash$   | Ш                   |          |      |        |          |            |          |                | L          | $\Box$   | Ш         |            | ╝      |          |          | . [  | I  | 143      |               |          | $\Box$  |          |          | $\Box$    | J        |        |
| 46   |          |            | Ц                   | Н                   | ╀-       | $\vdash$                               | <u> </u>     |  | $\sqcup$            | _        | _    | Ļ      |          |            |          | _              | <b> </b> _ | _  | Ш         | $\perp$    |        | [        | _        | . [  |    |          | $\perp$       |          |         |          |          |           |          |        |
| 47   |          |            | Ц                   | $\sqcup$            | 1_       | 1-                                     | -            |  | ┟┤                  | _        |      | -      |          |            |          | _              | L          | Ш  | Ш         | $\bot$     | $_{-}$ | [        | $\perp$  | , [. | I  | 145      |               |          |         |          |          | $\Box$    |          | ]      |
| 48   | Į        |            | $\sqcup$            | H                   | ↓_       | ↓_                                     | <del> </del> | Щ  | $\sqcup$            | 4        |      | · [    |          |            |          |                | <u> </u>   | L  | Ш         | _[         | _[     | _[       |          |      |    | 146      |               |          |         |          |          | $\Box$    | $\Box$   | ]      |
| 49 49 149  |          |            | $\vdash \downarrow$ | ┦                   | ╄-       | $\bot$                                 | <del> </del> | Н  | Ш                   |          |      | . :: [ |          |            |          |                |            |  | $\Box$    | _[         | [      |          | $\Box$   |      |    |          |               | <u> </u> |         |          |          | $\perp$ I |          | ╝      |
|  |          |            | Н                   | $oldsymbol{\sqcup}$ | $\vdash$ | $\vdash$                               | $\vdash$     | Н  | ┝╌┤                 | _        | _    |        |          |            | Щ        |                | L.         | $\sqcup$   |           | 4          | _      | [        | ╝.       | .    |    |          |               | Ļ        |         |          |          | $\Box$    | _[       | _]     |
| 150 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |          |            | H                   |                     | 1        | +                                      | $\vdash$     | $\vdash$   | $\vdash \downarrow$ | {        | 4    | "      |          |            |          |                | <u> </u>   | Ш  | $\sqcup$  | 4          | _      |          |          | L    |    |          |               | 1_       | 1_      | Ш        | _[       | $\perp$   | _        |        |
|  |          | οŲ         | V                   | ما                  | 1_       | ــــــــــــــــــــــــــــــــــــــ | L            | Ш  |                     |          |      | L.     |          | 100        |          |                | L          | Щ  | ᆜ         | $_{\perp}$ |        |          |          | L    |    | 150      |               | ┸        | Ш       |          |          |           | $\perp$  |        |